TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-05-11-15 Date: 13-02-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	-
2	Specific Gravity	2.56	-
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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R KARTHIK RECAHAN
Authorized Signatory
Quality Manager

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ನಡವಳಿಕೆ ಕಾರ್ಯದಾಖಲೆ ಅಧಿಕಾರಿಯವರು
ಕರ್ನಾಟಕ ಉಚ್ಚನ್ಯಾಯಾಲಯ, ದಾವಣಗೆರೆ ವಲಯ
ಶ್ರೀಮತಿ ಪೂರ್ಣಿಮಾ ಮುಕುಂದರಾವ್ ಪಾಲಕ
ಬಿ.ಎ.ಎಲ್. ಪದವಿ, ಪದವಿಪೂರ್ವ, ಬೆಂಗಳೂರು.

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	CP-2020-05-11-15 **Date: 12-02-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Concrete Retaining Wall and other Civil Works to Mallasandra Colony School in Ward No 13 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), Karnataka Rural Infrastructure Development Limited , No.280,59th Cross, 17th C Main Road , 3rd Y Block Rajaji Nagara, Bangaluru-560010
Customer's Reference	:	EE/DD/W.O/533/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-02-20
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	07-02-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2020-05-11-15** **Date: 12-02-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	-
2	Specific Gravity	2.51	-
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	-
5	*Loose Bulk Density (Kg/litre)	1.73	-

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Authorized Signatory
Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2020-05-11-15
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Concrete Retaining Wall and other Civil Works to Mallasandra Colony School in Ward No 13 Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), Karnataka Rural Infrastructure Development Limited , No.280,59th Cross, 17th C Main Road , 3rd Y Block Rajaji Nagara, Bangaluru-560010
Customer's Reference	:	EE/DD/W.O/533/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-02-20
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	26-02-20

Date: 02-03-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	148	200	11840	31.657	2673.7	2758.2	Not less than 1800Kg/m^3
2	402	150	201	12120	33.312	2748.5		
3	398	148	201	11840	33.770	2852.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Lab ID : **CP-2020-05-11-15** **Date: 02-03-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	151	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	153	202	
3	400	152	201	
4	401	151	199	
5	402	149	202	
6	402	153	200	
7	400	150	199	
8	404	150	203	
9	404	153	199	
10	402	151	201	
11	401	152	200	
12	399	149	203	
13	400	151	201	
14	401	153	202	
15	404	151	201	
16	401	150	201	
17	403	149	199	
18	402	150	202	
19	403	150	203	
20	401	152	199	
Average of 20	402	151	201	

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Certificate No.: TC-5548

Lab ID : **CP-2020-05-11-15** **Date: 02-03-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	151	60595	308.1	5.1	5.0
2	403	153	61640	300.5	4.9	
3	400	152	60819	302.4	5.0	
4	401	151	60397	304.7	5.0	
5	402	149	59892	302.1	5.0	
6	402	153	61404	305.8	5.0	
7	400	150	60066	306.8	5.1	
8	404	150	60548	304.7	5.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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